

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number
WO 2005/070905 A1

(51) International Patent Classification⁷: **C07D 263/44**,
277/34, A61K 31/421, 31/426, A61P 3/10

(21) International Application Number:
PCT/US2005/001344

(22) International Filing Date: 18 January 2005 (18.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/537,630 20 January 2004 (20.01.2004) US

(71) Applicant (for all designated States except US): **MERCK
& CO., INC.** [US/US]; 126 East Lincoln Avenue, Rahway,
New Jersey 07065-0907 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHI, Guo, Q.**
[CN/US]; 126 East Lincoln Avenue, Rahway, New Jersey
07065-0907 (US). **MEINKE, Peter, T.** [US/US]; 126
East Lincoln Avenue, Rahway, New Jersey 07065-0907
(US). **DROPINSKI, James, F.** [US/US]; 126 East Lincoln
Avenue, Rahway, New Jersey 07065-0907 (US). **ZHANG,
Yong** [US/US]; 126 East Lincoln Avenue, Rahway, New
Jersey 07065-0907 (US).

(74) Common Representative: **MERCK & CO., INC.**; 126
East Lincoln Avenue, Rahway, New Jersey 07065-0907
(US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

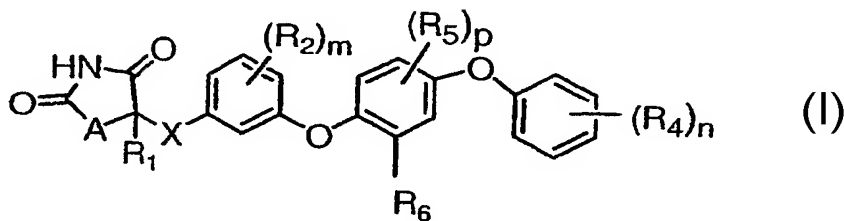
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: ANTIDIABETIC OXAZOLIDINEDIONES AND THIAZOLIDINEDIONES



(57) Abstract: Phenoxyphenyl and phenoxybenzyl oxazolidine-2,4-diones and thiazolidine-2,4-diones of formula (I) are agonists or partial agonists of PPAR gamma and are useful in the treatment and control of hyperglycemia that is symptomatic of type II diabetes, as well as dyslipidemia, hyperlipidemia, hypercholesterolemia, hypertriglyceridemia, and obesity that are often associated with type 2 diabetes.



WO 2005/070905 A1